NAGARJUNA GOVERNMENT COLLEGE,

AUTONOMOUS:NALGONDA

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(Re Accredited by NAAC with "A" Grade)

BOARD OF STUDIES MEETING

DEPARTMENT OF COMPUTER SCIENCE

2016-17

BOARD
OF
STUDIES MEETING

NAGARJUNA GOVERNMENT COLLEGE, NALGONDA
(Autonomous) Reaccredited with "A" Grade by NAAC
(Affiliated to Mahatma Gandhi University)
DEPARTMENT OF COMPUTER SCIENCE
BOARD OF STUDIES MEETING 2016-17
RESOLUTI ONS

The members of Board of studies in Computer Science Department, N.G. College, Nalgonda met under the chairmanship of Sri **CH.BIXMAIAH** on 28 10 -2016 and passed the following Resolutions.

AGENDA :

1. To consider and approve the syllabus for B.Sc I,II,III years(I, II, III, IV,V &VI Semesters) during 2016-17.
2. To consider and approve the introduction of Internal Assessment for the students admitted into I,II & III years degree course during 2016-17.
3. To consider and approve the model question paper for B.Sc I,II,&III year 2016-17
4. To consider and approve the list of examiners for paper setting, evaluation for B.Sc. I,II, & III year (I,II,III,IV,V & VI Semester) during 2016-17.
5. Any other related academic matters.

RESOLUTIONS:

1. It is resolved to approve the Syllabus and Question papers Models for the I,II,III,IV,V and VI Semester for the year 2016-17 and also in authorized the chairman of Board of Studies to nominate panel of Examiners and paper setter.
2. It is resolved to adopt each semester is of 100 marks in which 70 Marks for Theory and 30 Marks for Internal Examinations (20 Marks for written examination 5 Marks for Assignment and 5 marks for Seminar) introduce for the year 2016-17 as per the direction of CCE, Hyd.
3. It is resolved to organize class wise and year wise Class Seminar, Group Discussion and Guest Lecture.
4. Approved to conduct practical examination at the end of each semester for 1st year student and of fourth and sixth semesters for 2nd & 3rd year students.

LECTURER, Dept. of Computer Science, Govt. Degree College for Women, Ramagiri, NALGONDA. (A.P.)

Assistant Professor
Dept. of Computer Sciences & Informatics
M.G. University, Yellareddygudem,
Nalgonda - 508 254 (T.S.)

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Date -10-2016

To
The Principal
N.G.College
Nalgonda.

Sir,

Sub:- Grant of Autonomous Status - Constitution **of BOARD OF STUDIES** in B.Sc Computer Science Department – Request for Approval –Reg.

Ref:-

1) No.F.22-1/2007(AC) Dt: 3rd April 2007
2) OU Lr.Mr.69/H/2007/Acad.Dt.12-06-2007.
3) GO RT.No.467 HE.(CE-1) Dept. Dt.29-06-2007.
4) MGU Lr.191/MGU/NLG/2015-16, Dt.28-08-2015.

***

With Reference to the Subject Cited above, I am submitting the List of members of Board of Studies for Academic Years 2016-17 for your Approval.

S.No.	NAME	DESIGNATION
1	**Sri . CH.BIXMAIAH** In-Charge Dept of Computer Science N.G. College. Nalgonda.	**CHAIRPERSON**
2	**Prof.Dr.Sandhya Rani** Mahatma Gandhi University Nalognda.	**UNIVERSITY NOMINEE**
3	**Sri . K.Naga Raju** Govt.Degree Women's College. Nalgonda.	**SUBJECT EXPERT**
4	**Sri. T.Ravi Kumar** Kakatiya Degree College, Nalgonda.	**SUBJECT EXPERT**
5	**Sri. SP.VENKAT RAMANA** Contract Faculty Computer Science, N.G.College, Nalgonda.	**MEMBER**
6	**Sri . Y.Rukesh Kumar** Guest Faculty N.G.College, Nalgonda	**MEMBER**

Submitted By

Chairman BOS
Dept.of Computer Science

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N.G. College, NALGONDA.

Proposal Approved

Principal /Chair Person Acad Council

PANEL EXAMINERS

NAGARJUNA GOVERNMENT COLLEGE (AUTONOMOUS): NALGONDA

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PANEL OF EXAMINERS FOR THE YEAR 2016-17

Subject: **COMPUTER SCIENCE**

SNO	Paper	Name of the Examiners with full Addresses	Phone Numbers
1	I	K.Naga Raju , Lect. In Computer Science, Govt.Women's College, Ramagir, Nalgonda.	9948226486
2	I	CH. Naveen, MSc(Comp.Sci.) , M.Tech(C.S), SET, JAAGRUTHI DEGREE & PG COLLEGE , NO 2-2-168,Azad Road ,BHONGIR-508116. Dist.Nalgonda Telangana State.	9948781809
3	I	M.Vijay, Computer Lecturer, Indian Institute of Management of Commerce, 6-1-91,Adj.Telephone Bhavan, Khairatabad, Hyderabad-04	8143567352
4	II	K.Naga Raju , Lect. In Computer Science, Govt.Women's College, Ramagir, Nalgonda.	9948226486
5	II	T.Ravi Kumar Lect.in Computer Science, Kakatiya Degree College,Hyderabad Road, Nalgonda-508001.	9963801656
6	II	CH. Naveen, MSc(Comp.Sci.) , M.Tech(C.S), SET, JAAGRUTHI DEGREE & PG COLLEGE , HNO 2-2-168,Azad Road ,BHONGIR-508116. Dist.Nalgonda Telangana State.	9948781809
7	III	K.Naga Raju , Lect. In Computer Science, Govt.Women's College, Ramagir, Nalgonda.	9948226486
8	III	M.Satyanaryana, Lecturer in Computer Science, Indian Institute of Management of Commerce, 6-1-91,Adj.Telephone Bhavan, Khairatabad, Hyderabad-04	9866260143
9	III	T.Ravi Kumar Lect.in Computer Science Kakatiya Degree College,Hyderabad Road, Nalgonda-508001.	9963801656
10	IV	K.Naga Raju , Lect. In Computer Science, Govt.Women's College, Ramagir, Nalgonda.	9948226486
11	IV	M.Satyanaryana, Lecturer in Computer Science, Indian Institute of Management of Commerce, 6-1-91,Adj.Telephone Bhavan, Khairatabad, Hyderabad-04	9866260143
12	IV	Ravi Kumar Lect.in Computer Science Kakatiya Degree College,Hyderabad Road, Nalgonda-508001.	9963801656
13	V	M.Satyanaryana, Lecturer in Computer Science, Indian Institute of Management of Commerce, 6-1-91,Adj.Telephone Bhavan, Khairatabad, Hyderabad-04	9866260143
14	V	K.Prasanth Kumar, Lecturer in Computer Science, Indian Institute of Management of Commerce, 6-1-91,Adj.Telephone Bhavan, Khairatabad, Hyderabad-04	9908615205
15	V	T.Ravi Kumar Lect.in Computer Science Kakatiya Degree College,Hyderabad Road, Nalgonda-508001.	9963801656
16	VI	K.Naga Raju , Lect. In Computer Science, Govt.Women's College, Ramagir, Nalgonda.	9948226486
17	VI	M.Vijay, Computer Lecturer, Indian Institute of Management of Commerce, 6-1-91,Adj.Telephone Bhavan, Khairatabad, Hyderabad-04	8143567352
18	VI	T.Ravi Kumar in Computer Science Kakatiya Degree College,Hyderabad Road, Nalgonda-508001.	9985215987
19	VII	CH. Naveen, MSc(Comp.Sci.) , M.Tech(C.S), SET, JAAGRUTHI DEGREE & PG COLLEGE , HNO 2-2-168,Azad Road ,BHONGIR-508116. Dist.Nalgonda Telangana State.	9948781809
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SUBJECT LEVELS

DEPARTMENT OF COMPUTER SCIENCE

ALLOCATION OF CREDITS AT SUBJECT LEVEL

COURSE : SCIENCE **2016-17** **SUBJECT: COMPUTER SCIENCE**

S. No	Semester	Module(Paper)	Hours per week	Max. Marks	No. of credits
1	I (CORE)	Programme in C	4	100	3
2	Practicals	C programming Lab	3	50	2
2	II (CORE)	Programming in C++	4	100	3
3	Practicals	Programming in C++ Lab	3	50	2
4	III (CORE)	Objected Oriented Programming with Java	4	100	3
5	IV (CORE)	Java and Data Structures	4	100	3
6	Practicals	Java and Data Structures Lab	3	50	2
7	V Core	Database Management Systems	4	100	3
8	V Elective (Advanced)	Web Technologies / OR	3	100	2
9	V Elective (Advanced)	Mobile Communication	3	100	
10	Practicals	DBMS Lab	3	50	2
11	VI Core	Database Management Systems	4	100	3
12	VI Elective (Applied)	Web Technologies / OR	3	100	2
13	VI Elective (Applied)	Computer Networking	3	100	
14	Practicals	Web Programming Lab	3	50	2
15	Project Work	Self Study &Skill Based		Grade	
16	Others	Ms-Office & DTP		50	

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CURRICULAR PLAN

Department of Computer Science
Nagarjuna Government College, Nalgonda

Name of the Module: **C Programming** **Semester: I**
Nature of the Module: Core **Subject: Computer Science**
Mode of Learning: Regular
No. of Hours: 04 **Credits: 03** **Total Hours: 60**

CURRICULAR PLAN
Semester: I

S. No	Month and Week	No. of Hours	Topic	Curricular Activity	Co-curricular Activity	Remarks
1	June II	4	Computer Fundamentals,classification of computers,Memory	Teaching		
2	June III	4	Programm Fundamentals,Classifying of Programming Languages,Compiler	Teaching	Assignment/Seminar/Question and Answers	
3	June IV	4	Algorithm,Structred Programming Concept	Teaching		
4	July I	4	Basic of C,Parts of Simple C program,C Tokens,Datatypes	Teaching		
5	July II	4	Input-Output Functions,Escape Sequences	Teaching	Assignment/Seminar/Question and Answers	
6	July III	4	Control Statements,If,If-Else,Nested If,Conditional Operators	Teaching		
7	July IV	4	Iterative Statements,While,Do-While,For loop	Teaching	Quiz	
8	Aug I	4	Control Statements,Goto,Break,Continue	Teaching	Assignment/Seminar	
9	Aug II	4	Functions ,Call-by-value,Call-by-reference,passing Arrays to functions	Teaching	Seminar	
10	Aug III	4	Storage Classes,Inline functions,Recursion	Teaching		
11	Aug IV	4	Pointers,Introduction,Address of operarators,Uses of pointers	Teaching	Group Discussion	
12	Sep I	4	Pointers and strings ,Pointers to pointers,Arrays of pointers	Teaching		
13	Sep II	4	User defined Datatypes,declaring structure and its members	Teaching	Student Carrier Counselling	
14	Sep III	4	StructuresVs unions,Enumeration types,Files,Other file management functions	Teaching	Assignment/Seminar/Quiz	
15	Sep IV	4	Revision of the Syllabus	Teaching		

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Department of Computer Science
Nagarjuna Government College, Nalgonda

Name of the Module: **C++ Programming** **Semester:** II

Nature of the Module: Core **Subject: Computer Science**

Mode of Learning: Regular

No. of Hours: 04 **Credits: 03** **Total Hours: 60**

CURRICULAR PLAN

Semester: II

2	Nov II	4	c++ Introduction,Applications,C++ Tokens,Datatypes	Teaching & Practical (1)	Assignment/Seminar/Question and Answers	
3	Nov III	4	Operators,Expressions, Contorl structures	Teaching & Practical (1)		
4	Nov IV	4	Arrays,Strings,pointers,Searchin and sorting Arrays	Teaching & Practical (1)		
5	Dec I	4	Object Oriented Programming.Benefits of OOPs Languages,and OOP Applications	Teaching & Practical (1)	Assignment/Seminar/Question and Answers	
6	Dec II	4	Classes,Introduction,Defining an Instance of a Class,Inline Member Functions	Teaching & Practical (1)		
7	Dec III	4	Constructors,Destructors,Overloading Constructors,	Teaching & Practical (1)	Quiz	
8	Dec IV	4	Inheritance: Introduction, Protected Members and Class Access, Base Class Access Specification	Teaching & Practical (1)	Assignment/Seminar	
9	Jan I	4	Inline Member Functions, Constructors, Passing Arguments to Constructors, Destructors, Overloading Constructors	Teaching & Practical (1)	Seminar	
10	Jan II	4	Member-wise Assignment, Copy Constructors, Operator Overloading, Object Conversion, Aggregation.	Teaching & Practical (1)		
11	Jan III	4	Inheritance: Introduction, Protected Members and Class Access, Base Class Access Specification, Constructor	Teaching & Practical (1)	Group Discussion	
12	Jan IV	4	C++ Streams: Stream Classes, Unformatted I/O Operations, Formatted I/O Operations.	Teaching & Practical (1)		
13	Feb I	4	Exceptions: Introduction, Throwing an Exception, Handling an Exception, Object-Oriented Exception Handling	Teaching & Practical (1)	Student Carrier Counselling	
14	Feb II	4	Templates:Function Templates–Introduction, Function Templates with Multiple Type	Teaching & Practical (1)	Assignment/Seminar/Quiz	
15	Feb III	4	Revision of the Syllabus	Teaching & Practical (1)		
16	Feb IV	4	Remedial Classes	Teaching & Practical (1)		

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Name of the Module: **OBJECT ORIENTED PROGRAMMING WITH JAVA** **Semester:** III

Nature of the Module: **Core**

Subject: **Computer Science**

Mode of Learning: Regular 2016-17

No. of Hours: 04 **Credits: 03** **Total Hours: 60**

CURRICULAR PLAN

S. No	Month and Week	No. of Hours	Topic	Curricular Activity	Co-curricular Activity	Remarks
1	June II	4	Fundamentals of Object Oriented programming	Teaching		
2	June III	4	Java Evolution , Java Features – How Java differs from C and C++ - Java and Internet	Teaching	Assignment/Seminar/Question and Answers	
3	June IV	4	Overview of Java Language, Simple Java Program – Java Program Structure – Java Tokens- Java	Teaching		
4	July I	4	Constants, Variables, Constants – Variables – Data types – Declaration of Variables	Teaching		
5	July II	4	Data types- Scope of Variables- Symbolic Constants-Type Casting.	Teaching	Assignment/Seminar/Question and Answers	
6	July III	4	Operators and Expressions	Teaching		
7	July IV	4	Decision Making and Branching	Teaching	Quiz	
8	Aug I	4	Decision Making and Looping	Teaching	Assignment/Seminar	
9	Aug II	4	Class, Objects- Defining a Class – Fields Declaration – Methods Declaration – Creating Objects	Teaching	Seminar	
10	Aug III	4	Methods - Final Variables and Methods – Final Classes – Abstract Methods and Classes – Visibility	Teaching		
11	Aug IV	4	Arrays- Creating Array, One and Two dimensional Arrays	Teaching	Group Discussion	
12	Sep I	4	Strings,Vectors -One-dimensional Arrays-creating an Array – Two dimensional Arrays – Strings	Teaching		
13	Sep II	4	Wrapper classes, Enumarated Types	Teaching	Student Carrier Counselling	
14	Sep III	4	Multiple Inheritance- Defining Interfaces – Extending Interfaces – Implementing Interfaces	Teaching	Assignment/Seminar/Quiz	
15	Sep IV	4	Revision of the Syllabus	Teaching		

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Department of Computer Science
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Name of the Module: JAVA AND DATA STRUCTURES WITH JAVA **Semester:** IV

Nature of the Module: Core

Mode of Learning: Regular 2016-17 Subject: **Computer Science**

No. of Hours: 04 **Credits: 03** **Total Hours: 60**

CURRICULAR PLAN

S. No	Month and Week	No. of Hours	Topic	Curricular Activity	Co-curricular Activity	Remarks
1	Nov II	4	Packages- Java API Packages – Using system Packages – Naming Conventions	Teaching & Practical (1)	Assignment/Seminar/Question and Answers	
2	Nov III	4	Multithreaded Programming - Multithreaded Programming: Creating Threads – Extending the	Teaching & Practical (1)		
3	Nov IV	4	Applets-How Applets differ from Applications – Preparing to write Applets – Building Applet Code	Teaching & Practical (1)		
4	Dec I	4	Managing Errors - Types of Errors – Exceptions – Syntax of Exception Handling Code	Teaching & Practical (1)	Assignment/Seminar/Question and Answers	
5	Dec II	4	Exceptions- Throwing our own Exceptions – Using Exceptions for debugging.	Teaching & Practical (1)		
6	Dec III	4	Applet Programming,Creating an executable Applet	Teaching & Practical (1)	Quiz	
7	Dec IV	4	,Designing a Webpage,Applet tag,Adding Applet to HTML file	Teaching & Practical (1)	Assignment/Seminar	
8	Jan I	4	Sorting-SelectionSort-Insetion Sort-stacks	Teaching & Practical (1)	Seminar	
9	Jan II	4	Queues-Queues-Circular Queue-Dequees-Priority Queue	Teaching & Practical (1)		
10	Jan III	4	Linked List- Simple Linked List – Finding and Deleting Specified Links	Teaching & Practical (1)	Group Discussion	
11	Jan IV	4	Advanced Sorting-Quick Sort	Teaching & Practical (1)		
12	Feb I	4	Binary Trees - Tree Terminology – Finding a Node – Inserting a Node	Teaching & Practical (1)	Student Carrier Counselling	
13	Feb II	4	Graphs- Introduction to Graphs – Searches – Minimum Spanning Tree	Teaching & Practical (1)	Assignment/Seminar/Quiz	
14	Feb III	4	Revision of the Syllabus	Teaching & Practical (1)		
15	Feb IV	4	Remedial Classes	Teaching & Practical (1)		

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Name of the Module: **Data Base Management** **Semester:** V

Nature of the Module: Core **Subject: Computer Science**

Mode of Learning: Regular **2016-17**

No. of Hours: 04 **Credits: 03** **Total Hours: 60**

CURRICULAR PLAN

Semester: III

S. No	Month and Week	No. of Hours	Topic	Curricular Activity	Co-curricular Activity	Remarks
1	June II	4	DATABASE SYSTEMS: Introducing the database ,Historical Roots,	Teaching		
2	June III	4	DATA MODELS: The importance of Data models, Data Model Basic Building Blocks.	Teaching	Assignment/Seminar/Question and Answers	
3	June IV	4	The Relational Database Model: A logical view of Data, Keys, Integrity Rules.	Teaching		
4	July I	4	Relationships with in the Relational Database, Data Redundancy revisited, Indexes.	Teaching		
5	July II	4	.Entity Relationship Model: The ER Model, Developing ER Diagram	Teaching	Assignment/Seminar/Question and Answers	
6	July III	4	Advanced Data Modeling: The Extended Entity Relationship Model	Teaching		
7	July IV	4	Entity integrity: Selecting Primary keys, Design Cases: Learning Flexible Database Design	Teaching	Quiz	
8	Aug I	4	Normalization of database tables: Database Tables and Normalization.	Teaching	Assignment/Seminar	
9	Aug II	4	Normalization and database design, demoralization.	Teaching	Seminar	
10	Aug III	4	Introduction to SQL: Data Definition Commands	Teaching		
11	Aug IV	4	Data Manipulation Commands, Select Quiries	Teaching	Group Discussion	
12	Sep I	4	Advanced Data Definition Commands, Advanced Select queries, Virtual Tables	Teaching		
13	Sep II	4	Joining Database Tables	Teaching	Student Carrier Counselling	
14	Sep III	4	ADVANCED SQL: Relational Set OperatorsSub queries and correlated queries.	Teaching	Assignment/Seminar/Quiz	
15	Sep IV	4	Revision of the Syllabus	Teaching		

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Department of Computer Science
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Name of the Module: **WEB PROGRAMMIG** — **Semester: V**

Nature of the Module: Core — **Subject: Computer Science**

Mode of Learning: Regular — 2016-17

No. of Hours: 04 — **Credits: 03** — **Total Hours: 60**

CURRICULAR PLAN

Semester: III

S. No	Month and Week	No. of Hours	Topic	Curricular Activity	Co-curricular Activity	Remarks
1	June II	4	Introduction to Internet,Networks	Teaching		
2	June III	4	Intrduction to HTML,Basic HTML,History	Teaching	Assignment/Seminar/Question and Answers	
3	June IV	4	Introduction to XML concepts	Teaching		
4	July I	4	World wide web,URL	Teaching		
5	July II	4	The Document body, Text, Hyperlinks,	Teaching	Assignment/Seminar/Question and Answers	
6	July III	4	Adding more formatting, Lists	Teaching		
7	July IV	4	Tables, Using colors and images, Images.	Teaching	Quiz	
8	Aug I	4	MORE HTML: Multimedia objects, Frames	Teaching	Assignment/Seminar	
9	Aug II	4	Forms-towards interactivity, The HTML document Head in detail, XHTML	Teaching	Seminar	
10	Aug III	4	CASCADING STYLE SHEETS: Introduction, Using styles:	Teaching		
11	Aug IV	4	Defining your own styles, Properties and values in styles	Teaching	Group Discussion	
12	Sep I	4	Style sheets- A worked example, Formatting blocks of information, Layers.	Teaching		
13	Sep II	4	An introduction to Java Script: What is dynamic html, Java Script	Teaching	Student Carrier Counselling	
14	Sep III	4	The basics, Variables, String manipulation, Mathematical functions, Statements,Operators,	Teaching	Assignment/Seminar/Quiz	
15	Sep IV	4	Revision of the Syllabus	Teaching		

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Name of the Module: **Data Base Management** **Semester: VI**

Nature of the Module: Core

Mode of Learning: Regular Subject: Computer Science

2016-17

No. of Hours: 04 **Credits: 03** **Total Hours: 60**

CURRICULAR PLAN

Semester: II

S. No	Month and Week	No. of Hours	Topic	Curricular Activity	Co-curricular Activity	Remarks
1	Nov II	4	**DATABASE DESIGN:** The Information systen,SDLC,DBLC	Teaching & Practical (1)	Assignment/Seminar/Question and Answers	
2	Nov III	4	Database Design Strategies, Centralized Vs Decentralized design.	Teaching & Practical (1)		
3	Nov IV	4	Transaction Management and Concurency Control	Teaching & Practical (1)		
4	Dec I	4	concurrency control with optimistic methods, database recovery management.	Teaching & Practical (1)	Assignment/Seminar/Question and Answers	
5	Dec II	4	Distributed database management system,Evolution of DDMS	Teaching & Practical (1)		
6	Dec III	4	Data and Process distribution, Distributed database Transparency Features,	Teaching & Practical (1)	Quiz	
7	Dec IV	4	Distributed Transparency, Transaction TransparencyClient Server VS DDBMS.	Teaching & Practical (1)	Assignment/Seminar	
8	Jan I	4	THE DATA WAREHOUSE: The need for data analysis, Decision support systems	Teaching & Practical (1)	Seminar	
9	Jan II	4	Star schemas, Data mining, SQL extension for OLAP.	Teaching & Practical (1)		
10	Jan III	4	Database AdminstrationThe need for and role of databases	Teaching & Practical (1)	Group Discussion	
11	Jan IV	4	The evolution of the database administration function.	Teaching & Practical (1)		
12	Feb I	4	Database administration Tools	Teaching & Practical (1)	Student Carrier Counselling	
13	Feb II	4	The DBA at work: Using Oracle for Database Administration.	Teaching & Practical (1)	Assignment/Seminar/Quiz	
14	Feb III	4	Revision of the Syllabus	Teaching & Practical (1)		
15	Feb IV	4	Remedial Classes	Teaching & Practical (1)		

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Department of Computer Science
Nagarjuna Government College, Nalgonda

Name of the Module: **WEB PROGRAMMIG** **Semester: VI**

Nature of the Module: Core **Subject: Computer Science**

Mode of Learning: Regular 2016-17

No. of Hours: 04 **Credits: 03** **Total Hours: 60**

CURRICULAR PLAN

S. No	Month and Week	No. of Hours	Topic	Curricular Activity	Co-curricular Activity	Remarks
I	Nov II	4	Objects in Java Script: Data and objects in java script	Teaching & Practical (1)	Assignment/Seminar/Question and Answers	
2	Nov III	4	Regular expressions, Exception Handling, Built in objects, Events	Teaching & Practical (1)		
3	Nov IV	4	Dynamic HTML with Java Script: Data validation, Opening a new window	Teaching & Practical (1)		
4	Dec I	4	Messages and Confirmations, The status bar, Writing to a different frame, Rollover buttons	Teaching & Practical (1)	Assignment/Seminar/Question and Answers	
5	Dec II	4	Moving images, Multiple pages in a single download, A text-only menu system, Floating logos.	Teaching & Practical (1)		
6	Dec III	4	Active Server Pages and Java: Active Server Pages, Java.	Teaching & Practical (1)	Quiz	
7	Dec IV	4	XML: Defining Data for Web applications: Basic XML	Teaching & Practical (1)	Assignment/Seminar	
8	Jan I	4	Document type definition, XML schema,	Teaching & Practical (1)	Seminar	
9	Jan II	4	Document Object Model, Presenting X	Teaching & Practical (1)		
10	Jan III	4	Good Design: Structure, Tables versus Frames, Accessibility, Internationalization, Exercises	Teaching & Practical (1)	Group Discussion	
11	Jan IV	4	Useful Software: Web browsers, Perl, Web servers, mod_perl, Databases, Accessing your ISP	Teaching & Practical (1)		
12	Feb I	4	Protocols: Protocols, IP and TCP, Hyper Text Transfer Protocol, Common Gateway Interface.	Teaching & Practical (1)	Student Carrier Counselling	
13	Feb II	4	The Document Object Model, introducing the Document Object Model, Exercises.	Teaching & Practical (1)	Assignment/Seminar/Quiz	
14	Feb III	4	Revision of the Syllabus	Teaching & Practical (1)		
15	Feb IV	4	Remedial Classes	Teaching & Practical (1)		

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SYLLABUS

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DEPARTMENT OF COMPUTER SCIENCE

B.Sc. (COMPUTER SCIENCE) I YEAR (2016-17)

SEMESTER: I PAPER- I

SUBJECT:- PROGRAMMING IN C

UNIT – I

COMPUTER FUNDAMENTALS: Introduction of Computers, Classification of Computers, Anatomy of a Computer, Memory Hierarchy, Introduction to OS, Operational Overview of a CPU.

PROGRAM FUNDAMENTALS: Generation and Classification of Programming Languages, Compiling, Interpreting, Loading, Linking of a Program, Developing Program, Software Development.

ALGORITHMS: Definitions, Different Ways of Stating Algorithms (Step-form, Pseudo-code, Flowchart), Strategy for Designing Algorithms, Structured Programming Concept.

BASICS OF C: Overview of C, Developing Programs in C, Parts of Simple C Program, Structure of a C Program, Comments, Program Statements, C Tokens, Keywords, Identifiers, Data Types, Variables, Constants, Operators and Expressions, Expression Evaluation–precedence and associatively, Type Conversions.

UNIT – II

INPUT-OUTPUT: Non-formatted and Formatted Input and Output Functions, Escape Sequences,

CONTROL STATEMENTS: Selection Statements – if, if-else, nested if, nested if-else, comma operator, conditional operator, switch; Iterative Statements–while, for, do-while; Special Control Statement–goto, break, continue, return, exit.

ARRAYS AND STRINGS: One-dimensional Arrays, Character Arrays, Functions from ctype.h, string.h, Multidimensional Arrays.

UNIT – III

FUNCTIONS: Concept of Function, Using Functions, Call-by-Value Vs Call-by-reference, Passing Arrays to Functions, Score of Variables, Storage Classes, Inline Functions, and Recursion.

POINTERS: Introduction, Address of Operator (&), Pointer, Uses of Pointers, Arrays and Pointers, Pointers and Strings, Pointers to Pointers, Array of Pointers, Pointer to Array, Dynamic Memory Allocation.

UNIT – IV

USER-DEFINED DATA TYPES: Declaring a Structure (Union) and its members, Initialization Structure (Union), Accessing members of a Structure (Union), Array of Structures (Union), Structures Vs Unions, Enumeration Types.

FILES: Introduction, Using Files in C, Working with Text Files, Working with Binary Files, Files of Records, Random Access to Files of Records, Other File Management Functions.

Text book pradipDey, Manas Ghosh Computer Fundamentals and Programming in C(2e)

References

1.Ivor Horton,Beginning C
2.Herbert Schildt,The Complete Reference C
3.Paul Deitel, Harvey Deitel,C How To Program
4.Byron S. Gottfried,Theory and Problems of Programming with C
5.Brian W. Kernighan, Dennis M. Ritchie,The C Programming Language
6.B. A. Forouzan, R. F. Gilberg, A Structured Programming Approach Using C

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DEPARTMENT OF COMPUTER SCIENCE

B.Sc. (COMPUTER SCIENCE) I YEAR (2016-17)

SEMESTER: II PAPER - II

SUBJECT :- PROGRAMMING IN C++

UNIT – I

INTRODUCTION TO C++: Applications, Example Programs, Tokens, Data Types, Operators, Expressions, Control Structures, Arrays, Strings, Pointers, Searching and Sorting Arrays.

FUNCTIONS: Introduction, Prototype, Passing Data by Value, Reference Variables, Using Reference Variables as Parameters, Inline Functions, Default Arguments, Overloading Functions, Passing Arrays to Functions. Object-oriented Programming: Procedural and Object-Oriented Programming, Terminology, Benefits, OOP Languages, and OOP Applications.

UNIT – II

CLASSES: Introduction, Defining an Instance of a Class, Why Have Private Members? Separating Class Specification from Implementation, Inline Member Functions, Constructors, Passing Arguments to Constructors, Destructors, Overloading Constructors, Private Member Functions, Arrays of Objects, Instance and Static Members, Friends of Classes, Member-wise Assignment, Copy Constructors, Operator Overloading, Object Conversion, Aggregation.

UNIT – III

INHERITANCE: Introduction, Protected Members and Class Access, Base Class Access Specification, Constructors and Destructors in Base and Derived Classes, Redefining Base Class Functions, Class Hierarchies, Polymorphism and Virtual Member Functions, Abstract Base Classes and Pure Virtual Functions, Multiple Inheritance.

C++ STREAMS: Stream Classes, Unformatted I/O Operations, Formatted I/O Operations.

UNIT – IV

EXCEPTIONS: Introduction, Throwing an Exception, Handling an Exception, Object-Oriented Exception Handling with Classes, Multiple Exceptions, Extracting Data from the Exception Class, Re-throwing an Exception, Handling the bad_alloc Exception.

TEMPLATES: Function Templates–Introduction, Function Templates with Multiple Type, Overloading with Function Templates, Class Templates – Introduction, Defining Objects of the Class Template, Class Templates and Inheritance, Introduction to the STL.

Text Tony Gaddis, *Starting out with C++: from control structures through objects*(7e)

References

1. B. Lippman, *C++ Primer*
2. Bruce Eckel, *Thinking in C++*
3. K.R. Venugopal, *Mastering C++*
4. Herbert Schildt, *C++: The Complete Reference*
5. BjarneStroustrup, *The C++ Programming Language*
6. SouravSahay, *Object Oriented Programming with C++*

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B.Sc. (COMPUTER SCIENCE) I YEAR (2016-17)

SEMESTER: III PAPER- III

SUBJECT:- *OBJECT ORIENTED PROGRAMMING WITH JAVA*

UNIT – I

JAVA Fundamentals of Object Oriented programming :
Object Oriented paradigm – Basic concepts of Object Oriented Programming – Benefits of OOP – Applications of OOP.

Java Evolution : Java Features – How Java differs from C and C++ - Java and Internet – Java and World Wide Web – Web Browsers – Hardware and Software Requirements – Java Environment.

Overview of Java Language: Simple Java Program – Java Program Structure – Java Tokens- Java Statements – Implementing a Java Program – Java Virtual Machine – Command Line Arguments. (Chapters : 1,2,3)

UNIT – II

Constants, Variables and Data types: Constants – Variables – Data types – Declaration of Variables-Giving Values to variables- Scope of Variables-Symbolic Constants-Type Casting.

Operators and Expressions: Arithmetic Operators – Relational Operators- Logical Operators – Assignment Operators – Increment and Decrement Operators – Conditional Operators – Bitwise Operators – Special Operators – Arithmetic Expressions – Evaluation of Expressions – Precedence of Arithmetic Operators – Operator Precedence and Associativity.(Chapters :4 ,5)

UNIT – III

Decision Making and Branching:

Decision Making with If statement – Simple If Statement-If else Statement-Nesting If Else Statement- the ElseIf Ladder-The switch Statement – The ?: operator.

Decision Making and Looping: The while statement – The do statement – The for statement – Jumps in Loops.

Class , Objects and Methods: Defining a Class – Fields Declaration – Methods Declaration – Creating Objects – Accessing class members – Constructors – Methods Overloading – Static Members – Nesting of Methods – Inheritance – Overriding Methods – Final Variables and Methods – Final Classes – Abstract Methods and Classes – Visibility Control.(Chapters :6 ,7,8)

UNIT – IV

Arrays, Strings and Vectors: One-dimensional Arrays-creating an Array – Two dimensional Arrays – Strings – Vectors – Wrapper Classes – Enumerated Types.

Interfaces: Multiple Inheritance : Defining Interfaces – Extending Interfaces – Implementing Interfaces – Accessing Interface Variables.(Chapters :9,10)

PRESCRIBED BOOKS:

1. E.Balaguruswamy, Programming with Java, A primer, 3e, TATA McGraw-Hill Company (2008).(Chapters : 1 to 14)

Reference Books :

1. John R. Hubbard, Programming with Java, Second Edition, Schaum's outline Series, Tata McGrawhill (2007).
2. Timothy Budd, Understanding Object Oriented Programming with Java, Pearson Education
3. Jana, Java and Object Oriented Programming Paradigm, PHI (2007).
4. Deitel & Deitel. Java TM: How to Program, 7th Edition, PHI (2008).

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SEMESTER: IV PAPER- IV

SUBJECT:- *JAVA AND DATA STRUCTURES WITH JAVA*

UNIT – I

Packages: Java API Packages – Using system Packages – Naming Conventions – Creating Packages – Accessing a Package – Using a Package – Adding a Class to a Package – Hiding Classes – Static Import

Multithreaded programming and Applets: Multithreaded Programming: Creating Threads – Extending the Thread Class – Stopping and Blocking a Thread – Life Cycle of a Thread – Using Thread Methods – Thread Exceptions – Thread Priority – Synchronization. . (CHAPTERS : 11,12)

UNIT – II

Managing Errors and Exceptions: Types of Errors – Exceptions – Syntax of Exception Handling Code – Multiple Catch Statements – Using Finally Statement – Throwing our own Exceptions – Using Exceptions for debugging.

Applet Programming: How Applets differ from Applications – Preparing to write Applets – Building Applet Code – Applet Life Cycle – Creating an executable Applet – Designing a WebPage – Applet Tag – Adding Applet to HTML file – Running the Applet – More about Applet Tag – Passing parameters to Applets – Aligning the display – More about HTML tags – Displaying Numerical Values – Getting Input from the user.(Chapters : , 13, 14)

UNIT – III (DATA STRUCTURES)

Sorting: Bubble Sort – Selection Sort – Insertion Sort – Quick Sort-Stacks and

Queues: Stacks – Queues – Circular Queue – Deques - Priority Queue – Parsing Arithmetic Expressions.

Linked List: Simple Linked List – Finding and Deleting Specified Links – Double Ended Lists – Abstract Data types – Sorted Lists – Doubly Linked Lists

Advanced Sorting : Quick Sort (Only Quick Sort)

UNIT – IV

Binary Trees : Tree Terminology – Finding a Node – Inserting a Node – Traversing the Tree – Finding Maximum and Minimum values – Deleting a Node – Efficiency of Binary Trees – Trees Represented as Arrays

Graphs: Introduction to Graphs – Searches – Minimum Spanning Tree – Topological Sorting with Directed Graphs – Connectivity in Directed Graphs.

PRESCRIBED BOOKS :

1.Robert Lafore, Data Structures & Algorithms in Java, Second Edition, Pearson Education(2008) (Chapters: 3,4,5,7 (Only Quick Sort),8,13)

REFERENCE BOOKS :

1. Timothy Budd, Understanding Object Oriented Programming with Java, Pearson Education (2007).
2. Adam Drozdek, Data Structures and Algorithms in Java, Second Edition, Cengage Learning(2008).
3. John R. Hubbard, Anita Hurry, Data Structures with Java, Pearson Education (2008).
4. Jana, Java and Object Oriented Programming Paradigm, PHI (2007).
5. Deitel & Deitel. Java TM: How to Program, 7th Edition, PHI (2008).
6. Samatha, Classic Data Structures, PHI (2005).

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B.Sc III YEAR(2016-17) SEMESTER-V PAPER-V
SYLLABUS
DATABASE MANAGEMENT SYSTEMS

UNIT-I

Database Systems Introduction And Fundamentals

DATABASE SYSTEMS: Introducing the database and DBMS, Why the database is important.

Historical Roots: Files and File Systems, Problems with File System Data Management, Database Systems.

Data Modeling

DATA MODELS: The importance of Data models, Data Model Basic Building Blocks, Business Rules, The evaluation of Data Models, Degree of Data Abstraction.

UNIT-II

The Relational Database Model: A logical view of Data, Keys, Integrity Rules, Relational Set Operators, The Data Dictionary and the system catalog, Relationships with in the Relational Database, Data Redundancy revisited, Indexes, Codd's relational database rules.

Entity Relationship Model: The ER Model, Developing ER Diagram, Database Design Challenges: Conflicting Goals.

UNIT-III

Advanced Data Modeling: The Extended Entity Relationship Model, Entity clustering, Entity integrity: Selecting Primary keys, Design Cases: Learning Flexible Database Design.

Normalization of database tables: Database Tables and Normalization, The need for Normalization, The Normalization Process, Improving the design, Surrogate Key Considerations, High level Normal Forms, Normalization and database design, demoralization.

UNIT-IV

Introduction to SQL: Data Definition Commands, Data Manipulation Commands, Select queries, Advanced Data Definition Commands, Advanced Select queries, Virtual Tables, Joining Database Tables.

ADVANCED SQL: Relational Set Operators, SQL Join Operators, Sub queries and correlated queries, SQL Functions, Oracle Sequences, Updatable Views, and Procedural SQL.

Prescribed Text Book: Peter Rob, Carlos Coronel, Database Systems Design, Implementation and Management, Seventh Edition, Thomson (2007)

Reference Books:

1. Elimasri / Navathe, Fundamentals of Database Systems, Fifth Edition, Pearson Addison Wesley (2007).
2. Raman A Mata – Toledo/Panline K Cushman, Database Management Systems, Schaum's Outlibe series, Tata McGraw Hill (2007).
3. C.J.Date, A.Kannan, S.Swamynathan, An Introduction to Database Systems, Eight Edition, Pearson Education (2006).
4. Michel Kifer, Arthur Bernstein, Philip M. Lewis, Prabin K. Pani Graphi, Database Systems: An application oriented Approach, second edition, pearson education (2008).
5. Atul Kahate, Introduction to Database Management Systems, Pearson Education (2006).

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SEMESTER-V PAPER-VI
SYLLABUS
WEB TECHNOLAGIES

Total Marks 70

UNIT-I

Introduction: HTML, XML, and the World Wide Web.

UNIT-II

HTML: Basic HTML, The Document body, Text, Hyperlinks, Adding more formatting, Lists, Tables, Using colors and images, Images.

UNIT-III

MORE HTML: Multimedia objects, Frames, Forms-towards interactivity, The HTML document Head in detail, XHTML- An evolutionary markup.

CASCADING STYLE SHEETS: Introduction, Using styles: Simple examples, Defining your own styles, Properties and values in styles, Style sheets- A worked example, Formatting blocks of information, Layers.

UNIT-IV

AN INTRODUCTION TO JAVA SCRIPT: What is dynamic html, Java Script, Java script—The basics, Variables, String manipulation, Mathematical functions, Statements, Operators, Arrays, Functions.

Prescribed Book:

1. Chris Bates, Web Programming Building Internet Applications, Second Edition, Wiley (2007)

Reference Books:

1. Paul S.Wang Sanda S. Katila, An Introduction to Web Design Plus Programming, Thomson(2007).
2. Robert W.Sebesta, Programming the World Wide Web, Third Edition, Pearson Education (2007).
3. Thomas A.Powell, The Complete Reference HTML & XHTML, Fourth Edition, Tata McGraw Hill (2006).
4. Abders Moller and Michael Schwartzbach, An Introduction to XML and Web Technologies, Addison Wesley (2006).
5. Joel Sklar, Principles of Web Design, Thomson (2007).
6. Raj Kamal, Internet and Web Technologies, Tata McGraw Hill (2007).
7. Deitel, et al.,Internet and World Wide Web: How to Program, 3rd Edition, PHI (2008).
8. Gopalan & Akilandeswari, Web Technology: A Developer's Perspective, PHI (2008).

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B.Sc III YEAR (2016-17) SEMESTER-VI PAPER-VII
SYLLABUS

DATABASE MANAGEMENT SYSTEMS

UNIT-I

DATABASE DESIGN: The Information System, The Systems Development Life Cycle, The Database Life Cycle, Database Design Strategies, Centralized Vs Decentralized design.
TRANSACTION MANAGEMENT AND CONCURRENCY CONTROL: What is transaction, Concurrency control, Concurrency control with locking Methods, Concurrency control with time stamping methods, concurrency control with optimistic methods, database recovery management.

UNIT-II

DISTRIBUTED DATABASE MANAGEMENT SYSTEMS: The evolution of Distributed Database Management Systems, DDBMS advantages and Disadvantages, Distribution Processing and Distribution Databases, Characteristics of Distributed database management systems, DDBMS Components, Levels of Data and Process distribution, Distributed database Transparency Features, Distributed Transparency, Transaction Transparency, Performance Transparency and Query Optimization, Distributed Database Design, Client Server VS DDBMS.

UNIT-III

THE DATA WAREHOUSE: The need for data analysis, Decision support systems, The data warehouse, Online analytical processing, Star schemas, Data mining, SQL extension for OLAP.

UNIT-IV

DATABASE ADMINISTRATION: Data as a Corporate asset, The need for and role of databases in an organization, The evolution of the database administration function, The database environment's Human Component, Database administration Tools, The DBA at work: Using Oracle for Database Administration.

Prescribed Text Book: Peter Rob, Carlos Coronel, Database Systems Design, Implementation and Management, Seventh Edition, Thomson (2007)
Reference Books:

1. Elimasri / Navathe, Fundamentals of Database Systems, Fifth Edition, Pearson Addison Wesley (2007).
2. Raman A Mata – Toledo/Panline K Cushman, Database Management Systems, Schaum's Outlibe series, Tata McGraw Hill (2007).
3. C.J.Date, A.Kannan, S.Swamynathan, An Introduction to Database Systems, Eight Edition, Pearson Education (2006).
4. Michel Kifer, Arthur Bernstein, Philip M. Lewis, Prabin K. Pani Graphi, Database Systems: An application oriented Approach, second edition, pearson education (2008).
5. Atul Kahate, Introduction to Database Management Systems, Pearson Education (2006).

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B.Sc III YEAR(2016-17) PAPER-VIII
SEMESTER-VI SYLLABUS
WEB TECHNOLAGIES

UNIT-I

Objects in Java Script: Data and objects in java script, Regular expressions, Exception Handling, Built in objects, Event .

Dynamic HTML with Java Script: Data validation, Opening a new window, Messages and Confirmations, The status bar.

UNIT-II

Dynamic HTML with Java Script: Writing to a different frame, Rollover buttons, Moving images, Multiple pages in a single download, A text-only menu system, Floating logos.

UNIT-III

Active Server Pages and Java: Active Server Pages, Java.

XML: Defining Data for Web applications: Basic XML, Document type definition, XML schema, Document Object Model, Presenting X.

UNIT-IV

Good Design: Structure, Tables versus Frames, Accessibility, Internationalization, Exercises.

Useful Software: Web browsers, Perl, Web servers, mod_perl, Databases, Accessing your ISP, Exercises

Protocols: Protocols, IP and TCP, Hyper Text Transfer Protocol, Common Gateway Interface, The Document Object Model, introducing the Document Object Model, Exercises.

Case Study: The plan, The data

Prescribed Book:

- Chris Bates, Web Programming Building Internet Applications, Second Edition, Wiley (2007)

Reference Books:

1. Paul S.Wang Sanda S. Katila, An Introduction to Web Design Plus Programming, Thomson(2007).
- Robert W.Sebesta, Programming the World Wide Web, Third Edition, Pearson Education (2007).
- Thomas A.Powell, The Complete Reference HTML & XHTML, Fourth Edition, Tata McGraw Hill (2006).
- Abders Moller and Michael Schwartzbach, An Introduction to XML and Web Technologies, Addison Wesley (2006).
- Joel Sklar, Principles of Web Design, Thomson (2007).
- Raj Kamal, Internet and Web Technologies, Tata McGraw Hill (2007).
- Deitel, et al.,Internet and World Wide Web: How to Program, 3rd Edition, PHI (2008).
- Gopalan & Akilandeswari, Web Technology: A Developer's Perspective, PHI (2008).

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QUESTION BANKS

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B.Sc. (COMPUTER SCIENCE) I YEAR (2016-17)
SEMESTER: I

C LAB **PRACTICAL QUESTION BANK** Practical: 2 Hours/Week

1. Write a program to find the largest two (three) numbers using if and conditional operator.
2. Write a program to print the reverse of a given number.
3. Write a program to print the prime number from 2 to n where n is given by user.
4. Write a program to find the roots of a quadratic equation using switch statement.
5. Write a program to print a triangle of stars as follows (take number of lines from user):

```
*
***
*****
*******
*********
```

6. Write a program to find largest and smallest elements in a given list of numbers.
7. Write a program to find the product of two matrices..
8. Write a program to find the GCD of two numbers using iteration and recursion.
9. Write a program to illustrate use of storage classes.
10. Write a program to demonstrate the call by value and the call by reference concepts.
11. Write a program that prints a table indicating the number of occurrences of each alphabet in the text entered as command line arguments.
12. Write a program to illustrate use of data type enum.
13. Write a program to demonstrate use of string functions string.h header file.
14. Write a program that opens a file and counts the number of characters in a file.
15. Write a program to create a structure Student containing fields for Roll No., Name, Class, Year and Total Marks. Create 10 students and store them in a file.
16. write a program that opens an existing text file and copies it to a new text file with all lowercase letters changed to capital letters and all other characters unchanged.

Note:

1. Write the Pseudo Code and draw Flow Chart for the above programs.
2. Recommended to use Open Source Software: GCC on Linux; Dev C++ (or) Code Blocks on Windows 10.

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NAGARJUNA GOVT. DEGREE COLLEGE : NALGONDA
(AUTOTONOMOUS) (Re Accredited by NAAC with "A" Grade)
DEPARTMENT OF COMPUTER SCIENCE
B.Sc. (COMPUTER SCIENCE) I YEAR (2016-17) SEMESTER: II
Object Oriented Programming in C++ Practical

C++ Lab **PRACTICAL QUESTION BANK** Practical: 2 Hours/Week

1. Write a program to.
   a. Print the sum of digits of a given number.
   b. Check whether the given number is Armstrong or not
   c. Print the prime number from 2 to n where n is natural number given.
2. Write a program to find largest and smallest elements in a given list of numbers and sort the given list.
3. Write a menu driven program that can perform the following functions on strings. (Use overloaded operators where possible).
   a. Compare two strings for equality (== operator)
   b. Check whether first string is smaller than the second (<= operator)
   c. Copy the string to another.
   d. Extract a character from the string (overload [])
   e. Reverse the string.
   f. Concatenate two strings (+ operator)
4. Write a program using friend functions and inline functions.
5. Write a program to find area of a rectangle, circle, and square using constructors.
6. Write a program to implement copy constructor.
7. Write a program to demonstrate single inheritance and multiple inheritances.
8. Write a program to demonstrate hierarchical inheritance and multipath inheritance(using virtual functions)
9. Write a program to demonstrate static polymorphism using method overloading.
10. Write a program to demonstrate dynamic polymorphism using method overriding and dynamic method dispatch.
11. Write a program to demonstrate the function templates and class templates.
12. Write a program to menu driven program for accepting two numbers and perform calculator operations addition, subtraction, multiplication, division and remainder using function template.
13. Write a program to demonstrate exception handling.
14. Write a program to demonstrate various input-output manipulations.
15. Write a program to implement stack abstract data type.
16. Write a program to demonstrate array of objects.

Note: Recommended to use Open Source Software: GCC on Linux; Dev C++ (or) Code Blocks on Windows 10.

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DEPARTMENT OF COMPUTER SCIENCE
B.Sc II YEAR(2016-17)
PRACTICAL QUESTION BANK

TIME 3 HOURS **PAPER – II** Max.Marks 50

Java and Data structures Lab

Java Lab Cycle

1. Write a java program to determine the sum of the following harmonic series for a given value of 'n'.
   1+1/2+1/3+. . . _1/n

2. Write a program to perform the following operations on strings through interactive input.
   a) Sort given strings in alphabetical order.
   b) Check whether one string is sub string of another string or not.
   c) Convert the strings to uppercase.

3. Write a program to simulate on-line shopping.

4. Write a program to identify a duplicate value in a vector.

5. Create two threads such that one of the thread print even no's and another prints odd no's up to a given range.

6. Define an exception called "Marks Out Of Bound" Exception, that is thrown if the entered marks are greater than 100.

7. Write a JAVA program to shuffle the list elements using all the possible permutations.

8. Create a package called "Arithmetic" that contains methods to deal with all arithmetic operations. Also, write a program to use the package.

9. Write an Applet program to design a simple calculator.

10. Write a program to read a text and count all the occurrences of a given word. Also, display their positions.

11. Write an applet illustrating sequence of events in an applet.

12. Illustrate the method overriding in JAVA.

13. Write a program to fill elements into a list. Also, copy them in reverse order into another list.

14. Write an interactive program to accept name of a person and validate it. If the name contains any numeric value throw an exception "InvalidName".

15. Write an applet program to insert the text at the specified position.

16. Prompt for the cost price and selling price of an article and display the profit (or) loss percentage.

17. Create an anonymous array in JAVA.

18. Create a font animation application that changes the colors of text as and when prompted.

19. Write an interactive program to wish the user at different hours of the day.

20. Simulate the library information system i.e. maintain the list of books and borrower's details.

Data Structures Lab Cycle

21. Program to create, insert, delete and display operations on single linked list?

22. Program to create , insert, delete and display operations on double linked list ?

23. Program to create , insert, delete and display operations on circular single linked list ?

24. Program to split a single linked list

25. Program to reverse a single linked list

26. Program to implement Insertion Sort.

27. Program to implement PUSH and POP operations on Stack using array method.

28. Program to implement PUSH and POP operations on Stack using Linked list method.

29. Program to implement insert and delete operations on Queue using array method.

30. Program to implement insert and delete operations on Queue using linked list method.

31. Program to implement insert and delete operations on Priority Queue?

32. Program to implement insert and delete operations on Double Ended Queue?

33. Program to evaluate postfix expression by using Stack?

34. Program to construct Binary Search Tree and implement tree traversing Techniques.

35. Program to delete a leaf node from binary search tree.

36. Program to implement Selection Sort.

37. Program to implement Bubble Sort.

38. Program to implement Operations on Circular Queue.

39. Program to implement Quick Sort.

40. Program to Find number of Leaf nodesand Non-Leaf nodes in a Binary Search Tree.

41. Program for Insertion Sort.

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NAGARJUNA GOVT. DEGREE COLLEGE: NALGONDA(AUTONOMOUS)
B.Sc III YEAR(2016-17)PAPER III
DATABASE MANAGEMENT SYSTEM
PRACTICAL QUESTION BANK

TIME : 3 HOURS **MAX.MARKS : 50**

DBMS LAB

Lab Cycle

Order Tracking Database

The Order Tracking Database consists of the following defined six relation schemas.

EMPLOYEES(ENO,ENAME,ZIP,HDATE)
PARTS(PNO,PNAME,QOH,PRICE,LEVEL) (HINT: QOH: QUALITY ON HAND)
CUSTOMERS(CNO,CNAME,STREET,ZIP,PHONE)
ORDERS(ONO,CNO,ENO,RECEIVED DATE,SHIPPED DATE)
ODETAILS(ONO,PNO,QTY)
ZIPCODES(ZIP,CITY)

Solve the following queries

1. Get all pairs of customer numbers for customers based on same zip code.
2. Get part numbers for parts that have been ordered by at least two different, customers.
3. For each odetail row, get ono, pno, pname, qty and price values along with the total price for the item. (total price=price*qty)
4. Get customer name and employee pairs such that the customer with name has placed an order through the employee.
5. Get customer names living in fort dodge or liberal.
6. Get cname values of customers who have ordered a product with pno 10506.
7. Get pname values of parts with the lowest price.
8. Get cname values of customers who have placed at least one order through the employee with number 1000.
9. Get the cities in which customers or employees are located.
10. Get the total sales in dollars on all orders.
11. Get part name values that cost more than the average cost of all parts.
12. Get part names of parts ordered by at least two different customers.
13. Get for each part get pno,pname and total sales.
14. For each part, get pno,pname, total sales, whose total sales exceeds 1000.
15. Get pno, part names of parts ordered by at least two different customers.
16. Get cname values of customers who have ordered parts from any one employee based in which it a or liberal.

SHIPMENT DATABASE

AN ENTERPRISE WISHES TO MAINTAIN THE DETAILS ABOUT HIS SUPPLIERS AND OTHER CORRESPONDING DETAILS. FOR THAT IT USES THE FOLLOWING TABLES

TABLE S(SID,SNAME,ADDRESS)
PRIMARY KEY : SID
TABLE P(PID,PNAME,COLOR)
PRIMARY KEY : PID
TABLE CAT(SID,PID,COST)

PRIMARY KEY : SID+PID
REFERENCE KEY : SID REFERENCES S.SID
PID REFERENCES P.PID

Solve the following queries

1. Find the pnames of parts for which there is some supplier
2. Find the snames of suppliers who supply every part.
3. Find the snames of suppliers who suppy every red part.
4. Find the pnames of parts supllied by london supplier and by no one else
5. Find the sids of suppliers who charge more for some part other than the average cost of that part.
6. Using group by with having clause get the part numbers for all the parts supplied by more than one supplier.
7. Get the names of the suppliers, who do not supply part p2.
8. Find the sids of suppliers who supply a red and a green part
9. Find the sids of suppliers who supply a red or a green part
10. find the total amount has to pay for that supplier by part located from London

EMPLOYEE DATABASE

An enterprise wishes to maintain a database to automate its operations. Enterprise divided into to certain departments and each department consists of employees. The following two tables describes the automation schemas

DEPT (DEPTNO, DNAME, LOC)
EMP (EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO)

1. Create a view, which contain employee names and their manager names working in sales department.
2. Determine the names of employee, who earn more than their managers.
3. Determine the names of employees, who take highest salary in their departments.
4. Determine the employees, who located at the same place.
5. Determine the employees, whose total salary is like the minimum salary of any department.
6. Update the employee salary by 25%, whose experience is greater than 10 years.
7. Delete the employees, who completed 32 years of service.
8. Determine the minimum salary of an employee and his details, who join on the same date.
9. Determine the count of employees, who are taking commission and not taking commission.
10. Determine the department does not contain any employees.
11. Find out the details of top 5 earner of company.
12. Display those managers name whose salary is more than average salary of his employees.
13. Display those employees who joined the company before 15th of the month?
14. Display the manager who is having maximum number of employees working under him?
15. Print a list of employees displaying 'less salary' if less than 1500 if exactly 1500display as 'exact salary' and if greater than 1500 display 'more salary'?
16. Display those employees whose first 2 characters from hire date-last 2 characters of salary?
17. Display those employees whose 10% of salary is equal to the year of joining?
18. In which year did most people join the company? Display the year and number of employees.
19. Display the half of the enames in upper case and remaining lower case
20. Display ename, dname even if there no employees working in a particular department(use outer join).

University Database

University wishes to computerize their operations by using the following relations.
Student (snum:Integer, sname: string, major: string, level: string, age: integer)
Class (name: String, Hour:Integer, room: string, fid: integer)
Enrolled (sum: integer, cname: string)
Faculty (fid: Integer, fname: String, deptid: Integer)
Depart (deptid: Integer, dname: String, loc: integer)
By using above schema definitions, resolve the following queries
1.Find The Names Of All Juniors (Level=Jr) Who Are Enrolled In A Class Taught By Smith.
2.Find The Age Of The Oldest Student Who Is Either A History Major Or Is Enrolled In The Course Of Smith.
3.Find The Names Of All Classes That Either Meet R128 Or Have Five Or More Students Enrolled.
4.Find The Names Of All Students Who Are Enrolled In Two Classes That Meet At The Same Hour.
5.Find The Names Of Faculty Members Who Teach In Every Room In, Which Some Class Is Taught.
6.Find The Names Of Faculty Members For Whom The Combined Enrollment Of The Courses That They Teach Is Less Than Five.
7.Print The Level And Average Age Of Students For That Level, For Each Level.
8.Print The Level And Average Age Of The Student For That Level, For All Levels Except Jr.
9.Find The Names Of Students Who Are Enrolled In The Maximum Number Of Classes.
10.Find The Names of the students who are not enrolled in any class.

Airline Database

An Airline System would like to keep track their information by using the following relations.

Flights (flno: integer, from: string, to: string, distance: integer, Price: integer)
Aircraft (aid: integer, aname: string, cruising_range: integer)
Certified (eid: integer, aid: integer)
Employees (eid: integer, ename: string, salary: real)

Note that the employees relation describes pilots and other kinds of employees as well; every pilot is certified for aircraft and only pilots are certified to fly. Resolve the following queries:

1.for each pilot who is certified for more than three aircraft, find the eid's and the maximum cruising range of the aircraft that he (or she) certified for.
2.find the names of pilots whose salary is less than the price of the cheapest route from los angeles to honolulu.
3.find the name of the pilots certified from some boeing aircraft.
4.for all aircraft with cruising range over 1,000 miles, find the name of the aircraft and the average salary of all pilots certified for this aircraft.
5.find the aid's of all aircraft that can be used from los angels to chicago.
6.print the enames of pilots who can operate planes with cruising range greater than 3,000 miles, but are not certified by boeing aircraft.
7.find the total amount paid to employees as salaries.
8.find the eid's of employees who are certified for exactly three aircrafts.
9.find the eid's of employee who make second highest salary.
10.find the aid's of all than can be used on non-stop flights from bonn to chennai.

PL/SQL PROGRAMS

1. Write a pl/sql program to check the given number is strong or not.
2. Write a pl/sql program to check the given string is palindrome or not.
3. Write a pl/sql program to swap two numbers without using third variable.
4. Write a pl/sql program to generate multiplication tables for 2,4,6
5. Write a pl/sql program to display sum of even numbers and sum of odd numbers in the given range.
6. Write a pl/sql program to check the given number is pollinndrome or not.
7. The hrd manager has decided to raise the employee salary by 15%. Write a pl/sql block to accept the employee number and update the salary of that employee. display appropriate message based on the existence of the record in emp table.
8. Write a pl/sql program to display top 10 rows in emp table based on their job and salary.
9. Write a pl/sql program to raise the employee salary by 10%, for department number 30 people and also maintain the raised details in the raise table.
10. Write a procedure to update the salary of employee, who are not getting commission by 10%.
11. write a pl/sql procedure to prepare an electricity bill by using following table

TABLE USED: SELECT

NAME	NULL?	TYPE
MNO	NOT NULL	NUMBER(3)
CNAME		VARCHAR2(20)
CUR_READ		NUMBER(5)
PREV_READ		NUMBER(5)
NO_UNITS		NUMBER(5)
AMOUNT		NUMBER(8,2)
SER_TAX		NUMBER(8,2)
NET_AMT		NUMBER(9,2)

12. WRITE A PL/SQL PROCEDURE TO PREPARE AN TELEPHONE BILL BY USING FOLLOWING TABLE. AND PRINT THE MOTHLY BILLS FOR EACH CUSTOMER

TABLE USED : PHONE.

NAME	NULL?	TYPE
TEL_NO	NOT NULL	NUMBER(6)
CNAME		VARCHAR2(20)
CITY		VARCHAR2(10)
PR_READ		NUMBER(5)
CUR_READ		NUMBER(5)
NET_UNITS		NUMBER(5)
TOT_AMT		NUMBER(8,2)

13. WRITE A PL/SQL PROGRAM TO RAISE THE EMPLOYEE SALARY BY 10%, WHO ARE COMPLETED THERE 25 YEARS OF SERVICE.
14. WRITE A PL/SQL PROCEDURE TO EVALUATE THE GRADE OF A STUDENT WITH FOLLOWING CONDITIONS:

FOR PASS: ALL MARKS > 40
FOR I CLASS: TOTAL%>59
FOR II CLASS: TOTAL% BETWEEN >40 AND <60
FOR III CLASS: TOTAL% =40
AND ALSO MAINTAIN THE DETAILS IN ABSTRACT TABLE.

TABLES USED

TABLE STD

SQL> DESC STD

NAME	NULL?	TYPE
NO	NOT NULL	NUMBER
NAME		VARCHAR2(10)
INTNO		NUMBER
CLASS	NOT NULL	VARCHAR2(10)
M1		NUMBER
M2		NUMBER
M3		NUMBER
M4		NUMBER
M5		NUMBER

TABLE ABSTRACT

SQL> DESC ABSTRACT

NAME	NULL?	TYPE
STDNO		NUMBER
STDNAME		VARCHAR2(10)
CLASS		VARCHAR2(10)
INTNO		NUMBER
TOT		NUMBER
GRADE		VARCHAR2(10)
PERCENT		NUMBER
DAT_ENTER		DATE

15. WRITE A PROCEDURE TO UPDATE THE SALARY OF EMPLOYEE, WHO BELONGS TO CERTAIN DEPARTMENT WITH A CERTAIN PERCENTAGE OF RAISE.

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NAGARJUNA GOVT. DEGREE COLLEGE: NALGONDA

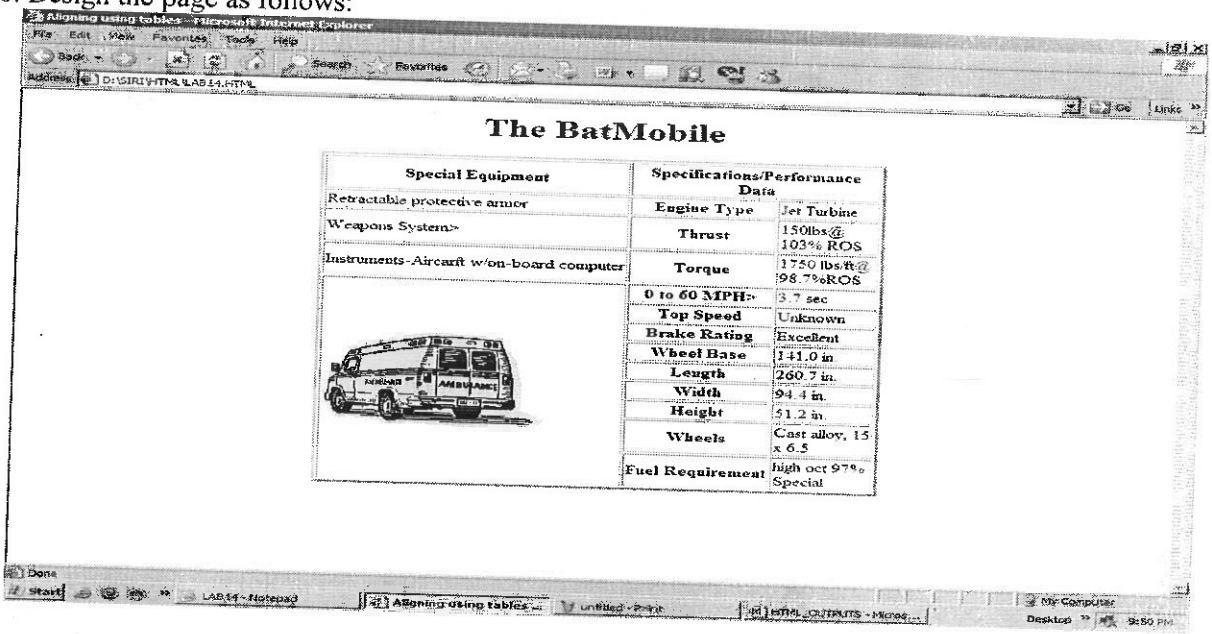
(AUTONOMOUS)
DEPARTMENT OF COMPUTER SCIENCE
B.Sc III YEAR(2016-17)
WEB PROGRAMMING

PRACTICAL QUESTION BANK

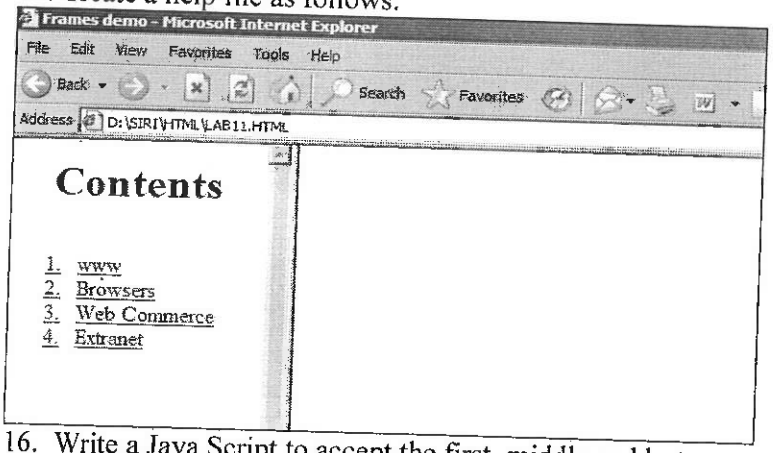
TIME : 3 HOURS **MAX.MARKS : 50**

Lab Cycle

1. Write a HTML program illustrating text formatting.
2. Illustrate font variations in your HTML code.
3. Prepare a sample code to illustrate links between different sections of the page.
4. Create a simple HTML program to illustrate three types of lists.
5. Embed a real player in your web page.
6. Embed a calendar object in your web page.
7. Create an applet that accepts two numbers and perform all the arithmetic operations on them.
8. Create nested table to store your curriculum.
9. Create a form that accepts the information from the subscriber of a mailing system.
10. Design the page as follows:



14. Illustrate the horizontal rulers in your page.
15. Create a help file as follows:



16. Write a Java Script to accept the first, middle and last names of the user and print the name.

17. Evaluate the following:
    a) "10"+"90"
    b) (10<8)>10:8
    c) J=(i++)+(--i)+(++i)+(i++) where i=2
18. Write a Program in Java Script to add two numbers.
19. Write a script to find the factorial of a given number using functions.

20. Write a script to print all primes with in the given range.

21. Write a program to sort the array elements using "Bubble Sort" technique.

22. Write a program in Java Script to implement "Binary Search" technique.

23. Write a script to print all perfect numbers with in the given range.

24. Write a script to evaluate the following expression:

    1+2/2! +3/3! +……+n/n!

25. Write a program to implement "Stack" operations.
26. Write a script to print Fibonacci series recursive functions.

27. Using a ternary operator, write a script to validate the withdrawal transaction of a customer. If he with draws more than his balance, such a transaction should be disallowed.

28. Write a script to wish the user "Good Morning" at different hours of the day.B.Sc(Computer Science): III Year: Lab-4.1 (Continued).
29.Prompt the user for the cost price and selling price of an article and output the profit or loss percentage.
30.Create a customer profile for data entry of customers in a hotel. The profile should prompt for the name, address, gender, age, room type, mode of payment of the customer.

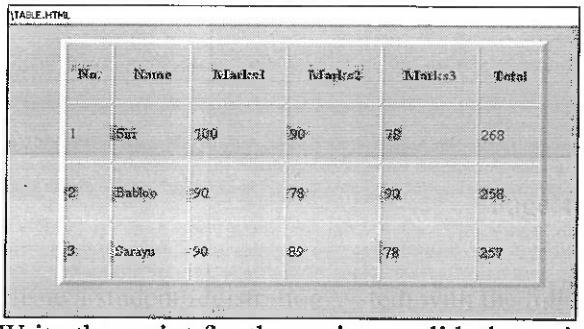
31.Create a student registration system with the following fields:

Name, Regdno, Gender, street, city, state, pincode, stdcode, phone, dbirth, college, experience, course code. Create a main object called "Stu_info" with all the fields and "College" and "Experience" as sub objects with in the main object. Create separate object definition for College and Experience with the following fields:

College: Name, Location, Degree

Experience: Employer, Location, Duties and Period

32.Write a script to read information of 'n' students from the user and store them into the table as follows:



33.Write the script for the various validations given below:

a. Candidate code should be generated
b. Date of Birth should not be null and age should be more than 21.
c. All alphabet fields should be validated.
d. All number fields should accept only numbers.
e. Total experience should be calculated and displayed after accepting input for the "From" and "To" fields in the table.

34. Create a bio-data format with the following fields:

Name, candidate code, Date of birth, Gender, Address1, Address2, Phone, Passport number, Qualification and Percentage.

Also, create the following fields for entering present employment details:

Company name Company Address1, Address2, Address3, Phone, Fax, E-mail, Total Experience and Project details.

Create a table with the columns given below in a 3 row structure:

Employer name, Location, From, To, Field

35. Create a web page for a shopping mall that allows the user to tick off his purchases and obtain a bill with the total being simultaneously added up. The web page must follow the specifications as given below:

a.The entire web page must be divided into four portions. The top most portion states the name of the mall, the middle portion of the web page is divided vertically into two, the types of the items available in the mall are displayed on the left side and a detailed description of each item with the prices are available on the right. Finally, the bottom most portion of the web page must display the cash memo with the total along side.

b.Each item in the left hand frame must have a link to the file containing its detailed description, which must be displayed in the right hand frame. Ensure that the user is able to perceive only that portion of the file that is related to the item on which he

clicked. Prior to the link being activated, the right hand frame must display a friendly message that gives an idea about its latter contents.

36. Design a simple calculator.
37. Write a DHTML program to give different colors for different heading tags.
38. Using DHTML, invert the behavior of <h1> to <h6> tags.
39. Create an inline style sheet for your web page.
40. Create an external style sheet for creating a font family.
41. Illustrate the creation of embedded style sheet.
42. Illustrate the procedure of creating user-defined classes.
43. Write an ASP script to send the information accepted from the user and send it to a CGI script.
44. Write an ASP script to update the student information with some number 'n' in the table.
45. Delete the desired student's record from the table using the ASP Script.

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MODEL PAPERS

NAGARJUNA GOVERNMENT COLLEGE (AUTONOMOUS) , NALGONDA

TENTATIVE SCHEME OF EVALUATION

COURSE: B.Sc., **SUBJECT: Computer Science** **2016-17**

Semester: IV **Module: C PROGRAMMING**

Time: 2:30 Hours **PAPER -I** **Max. Marks: 70**

PART-A

I. Answer the following questions in one or two sentences. **5x2=10**

1. What is RAM?
2. What is Compiler?
3. What is Array?
4. Define Enumerated Data type?
5. Explain C Tokens?

PART-B

II. Answer any four questions from the following not exceeding 20 lines. **4x5=20**

6. Explain about Control Statements?
7. What is String. And Explain It?
8. What is Call- By - Value. Explain?
9. Write a Program to find Factorial of a given Number?
10. What is Algorithm? Explain its Characteristics
11. Explain Call-by- address?

PART-C

III. Answer the following questions not exceeding 40 lines **4x10=40**

12. A) Explain about Different Data types in C language?

OR

B) What is Operating System?

13. A) Explain Looping Statements with an Example Program?

OR

B) Write a Program Matrix multiplication using Arrays?

14. A) What is Storage class? Explain Different types of Storage classes?

OR

B) What is Pointer? Give to suitable example programs.

15. A) Define the Structure? Explain it with an Example program

OR

B) Explain about Working with Binary Files.

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TENTATIVE SCHEME OF EVALUATION

COURSE: B.Sc., SUBJECT: COMPUTER SCIENCE 2016-17

SEMESTER: II **Module: C++ PROGRAMMING**

Time: 2:30 **PAPER-II** Max.Marks:70

PART-A

I. Answer the following questions in one or two sentences. **5x2=10**

1. What is an Exception?
2. What is a Array?
3. What is a Class?
4. Define the Constructor?
5. Define the Inheritance?

PART-B

II. Answer any four questions from the following not exceeding 20 lines. **4x5=20**

6. Explain about OOPs?
7. Write a short note on Data types?
8. What is Virtual Function?
9. Explain about Polymorphism?
10. Explain about Unformatted I/O Operations.

PART-C

III. Answer the following questions not exceeding 40 lines. **4x10=40**

12. A) Explain about Control structures in C++.

OR

B) What is Function? Explain about Call-by-value?

13. A) Explain about Operator overloading?

OR

B) Write a Program to implement copy constructor?

14. A) Explain about Different types of inheritances?

OR

B) Explain Friend functions and Inline functions?

15. A) Explain about Exception Handling in C++?

OR

B) Explain about Templates?

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NAGARJUNA GOVERNMENT COLLEGE (AUTONOMOUS), NALGONDA

TENTATIVE SCHEME OF EVALUATION

COURSE: B.Sc., 2016-17 SUBJECT: Computer Science
Semester: III PAPER-III Module: OBJECT ORIENTED PROGRAMMING WITH JAVA
Max. Marks: 70 Time: 2:30 Hours

PART -A
(Very Short Questions) 5 X 2 = 10

I. Answer all the questions

1. What is Token
2. What is thread exception?
3. What is run time error?
4. Explain about nested if statement?
5. Define Data abstraction?

PART - B
(Short Questions) 4 X 5 = 20

II. Answer any four of the following
(At least one question from each unit)

6. Java use with Internet?
7. Write a short notes on web-browser?
8. Explain about data tax?
9. Explain about interface?
10. Explain about enumerated data type?
11. Explain about benefit of oops?

PART-C
(Essay Type Questions)

III. Answer the following questions **4 X 10=40**

12.a) Explain about java feature.

(OR)

b) Explain about java virtual machine.

13. a) Define constant type and variables

(OR)

b) Explain about the Operators.

14 a) Explain about conditional statement with examples.

(OR)

b) Explain about loop statement with examples?

15 .a) Define arrays? Write a program matrix multiplication

(OR)

b) Define String explain about type of string

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NAGARJUNA GOVERNMENT COLLEGE (AUTONOMOUS) , NALGONDA

TENTATIVE SCHEME OF EVALUATION

COURSE: B.Sc., **SUBJECT: Computer Science** **2016-17**

Semester: IV **Module: JAVA AND DATASTRUCTURES WITH JAVA**

Max. Marks: 70 **PAPER-IV** **Time: 2:30 Hours**

PART -A
(Very Short Questions) **5 X 2 = 10**

Answer all the questions

1. Define applets?
2. Java API packager?
3. States of a thread?
4. Define selection sort?
5. What is quick sort?

PART - B
(Short Questions) **4 X 5 = 20**

II. Answer any four of the following
(At least one question from each unit)

6 . What is bubble sort?
7. Explain about circular queue?
8. What are directed graphs?
9. Explain the in order and post order travels in tree?
10. Explain depth search in graphs?
11 .Explain about try catch method?

PART-C
(Essay Type Questions) **4 X 10=40**

III. Answer the following questions

12. a) Explain about command line argument in java
(OR)
b)Explain about multithread programming?

13. a) Explain about io exemptions with example?
(OR)
b)define applet ?Write about any four applets?

14.a) Explain about selection sort give one example.
(OR)
b) Explain about quicker give one example.

15. a) What is tree? Explain about types of tree.
(OR)
b) Explain about minimum spanning tree

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FACULTY OF SCIENCE
B.Sc III Year : SEMESTER –V 2016-17
Subject:- DATABASE MANAGEMENT SYSTEMS
PAPER-V MODEL PAPER

Time 2 1/2 Hours Max. Marks 70

PART-A

I. Answer the following question in one or two sentences **5x 2 =10**

1. What is a Data Inconsistency?
2. What is a the Physical Model?
3. Define a Key.
4. Define an Entity.
5. Define a Normal form.

PART-B

II. Answer any four questions from the following not exceeding 20 lines **4X5=20**

6. Explain about Files and File Systems.
7. Explain about Degree of Data Abstraction.
8. Write about Codd's relational database rules.
9. Write about Entity clustering.
10. Explain about Data Definition Commands.
11. Write about a Relational Set Operators.

PART-C

III. Answer the following questions not exceeding 40 lines **4X10=40**

12. a). Explain about role and advantages of the DBMS.

OR

b). Explain about The evaluation of Data Models.

13. a).Explain about an Integrity Rules

OR

b)Write about The ER Model

14.a) Explain about The Extended Entity Relationship Model

OR

b) Write about High level Normal Forms

15.a)Explain about Data Manipulation Commands.

OR

b) Write about SQL Join Operators

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FACULTY OF SCIENCE
B.Sc III Year : SEMESTER –V 2016-17
Subject:- DATABASE MANAGEMENT SYSTEMS
PAPER-VII MODEL PAPER

Time 2 1/2 Hours Max. Marks 70

PART-A

I. Answer the following question in one or two sentences **5x 2 =10**

1. What is a The Information System?
2. What is transaction l?
3. DDBMS advantages .
4. Define an Entity.
5. Define a Normal form.

PART-B

III. Answer any four questions from the following not exceeding 20 lines **4X5=20**

6. Explain about Files and File Systems.
7. Explain about Degree of Data Abstraction.
8. Write about Codd's relational database rules.
9. Write about Entity clustering.
10. Explain about Data Definition Commands.
11. Write about a Relational Set Operators.

PART-C

III. Answer the following questions not exceeding 40 lines **4X10=40**

12. a). Explain about role and advantages of the DBMS.

OR

b). Explain about The evaluation of Data Models.

13. a).Explain about an Integrity Rules

OR

b)Write about The ER Model

14.a) Explain about The Extended Entity Relationship Model

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B.Sc III Year
SEMESTER-V 2016-17
SUBJECT :- WEB TECHNOLOGIES
PAPER-VI MODEL PAPER

Tim 2 1/2 Hours **Max. Marks 70**

SECTION-A

I. Answer the following questions in one or two sentences. **5x2=10**

1. What is HTML?
2. Define Hyperlink?
3. Define the URL?
4. What is Data types in JavaScript?
5. What is Image?

Part-B

II. Answer any four questions from the following not exceeding 20 lines. **4x5=20**

6. Write short notes on XML?
7. Explain about HTML Heading tags?
8. Explain Multi frames with an Example Program?
9. Explain about XHTML?
10. Explain about HTML document body?
11. Explain about Different Data types in JavaScript.?

Part-C

III. Answer the following questions not exceeding 40 lines. **4x10=40**

12. A) What is WWW?

OR

B) Define the Internet. And Explain Internet services?

13. A) what is Table? And explain it with an Example Program?

OR

B) Explain about Different types of List with an example Program

14. A) What is Form? And Explain about Different types of Form Components?

OR

B) What is DHTML? And Explain Different types of Style sheets?

15. A) What is JavaScript. And Explain it Any Example Program?

OR

B) Explain Conditional Statements and Control Statements in JavaScript?

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B.Sc III Year

SEMESTER-VI 2016-17

SUBJECT :- WEB TECHNOLOGIES

PAPER-VIII MODEL PAPER

Time:2:30 **Max.Marks:70**

I. Answer the following questions in one or two sentences **5x2=10**

1. What is Object?
2. What is Event?
3. Define DHTML?
4. What is Regular Expressions?
5. What is GET( )?

Part-B

II.Answer any four questions from the following not exceeding 20 lines. **4x5=20**

6. Explain Document Object?
7. Explain about XML?
8. Write the Principles of Good design?
9. What is PERL?
10. Explain CGI?
11. Explain About Differences between the GET( ) And POST( )

Part-C

III. Answer the following questions not exceeding 40 lines. **4x10=40**

12. A) Explain About Exception handling with an example Program?

OR

B) Explain about Events With an Example Program?

13. A) What is Data Validation?

OR

B) Explain about Rollover Buttons?

14. A) what is ASP? And Explain Its Objects?

OR

B) Explain XML DOM?

15. A) Define Protocol? Explain Different Types of Protocol?

OR

B) Explain about XML Schema?

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